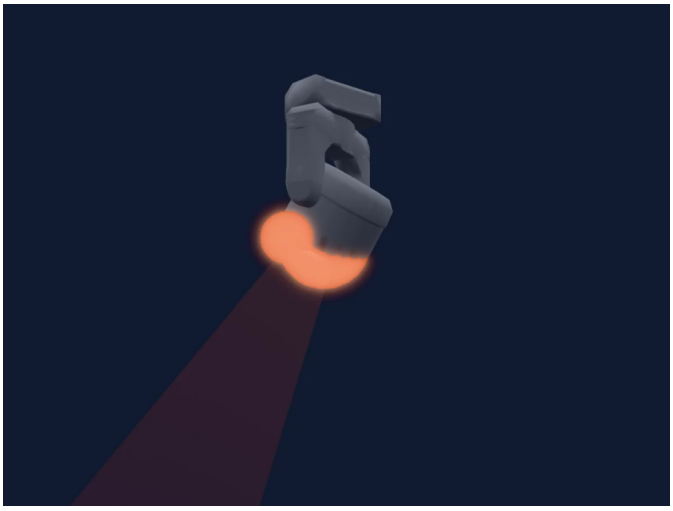
Martin Professional

RUSH MH 10 FX cluster



Manufacturer	**Martin Professional**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**14, 21 channels**
Beam angle	**9-41.7°**
Pan range	**540°**
Tilt range	**232°**
Size (W × H × D)	**219 × 161 × 220 mm**
GDTF fixture type	**B366CAE7-A135-4DCF-9CA8-91…**

Controls

Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control · Pan and tilt

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Standard	14 ch
Extended	21 ch

Standard

14 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	22	0–19 Closed 20–24 Open 25–44 Strobe · Fast 20–10.7 Hz 45–63 Strobe · Medium 10.3–1.49 Hz 64–64 Strobe · Slow 1 Hz 65–69 Open 70–76 Opening Pulse · Fast 3–1.77 Hz 77–83 Opening Pulse · Medium 1.56–0.33 Hz 84–84 Opening Pulse · Slow 0.125 Hz 85–89 Open 90–96 Closing Pulse · Fast 3–1.77 Hz 97–103 Closing Pulse · Medium 1.56–0.33 Hz 104–104 Closing Pulse · Slow 0.125 Hz 105–109 Open 110–116 Strobe Random · Fast 20–11.9 Hz 117–123 Strobe Random · Medium 10.5–2.36 Hz 124–124 Strobe Random · Slow 1 Hz 125–129 Open 130–136 Opening Pulse Random · Fast 3–1.77 Hz 137–143 Opening Pulse Random · Medium 1.56–0.33 Hz 144–144 Opening Pulse Random · Slow 0.125 Hz 145–149 Open 150–156 Closing Pulse Random · Fast 3–1.77 Hz 157–163 Closing Pulse Random · Medium 1.56–0.33 Hz 164–164 Closing Pulse Random · Slow 0.125 Hz 165–169 Open 170–176 Burst Pulse · Fast 20–11.9 Hz 177–183 Burst Pulse · Medium 10.5–2.36 Hz 184–184 Burst Pulse · Slow 1 Hz 185–189 Open 190–196 Random Burst Pulse · Fast 20–11.9 Hz 197–203 Random Burst Pulse · Medium 10.5–2.36 Hz 204–204 Random Burst Pulse · Slow 1 Hz 205–209 Open 210–216 Sine Wave strobe · Fast 3–2.14 Hz 217–223 Sine Wave strobe · Medium 2–1.14 Hz 224–224 Sine Wave strobe · Slow 1 Hz 225–229 Open 230–236 Burst strobe · Fast 20–11.9 Hz 237–243 Burst strobe · Medium 10.5–2.36 Hz 244–244 Burst strobe · Slow 1 Hz 245–255 Open
2	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
3	Zoom	128	0–127 Wide 128–254 Medium 255–255 Narrow
4	Pan	128	
5	Pan Fine	0	Fine byte of Pan
6	Tilt	128	
7	Tilt Fine	0	Fine byte of Tilt

Standard (continued)

Ch	Function	Default	DMX values
8	Control1	0	0–9 Idle 10–14 Reset Entire Fixture (5s) 15–39 No Function 1 40–44 Standard (1s) 45–49 Fast (1s) 50–54 Smooth (1s) 55–59 No Function 2 60–69 Full Fan Speed (1s) 70–74 Regulated Fan Speed (1s) 75–89 No Function 3 90–99 Calibrated Color Mode (3s) 100–104 Raw Color Mode (3s) 105–109 No Function 4 110–119 Fast Dimming Speed (3s) 120–124 Smooth Dimming Speed (3s) 125–249 No Function 5 250–255 Control Panel Display ON (15s)

Standard (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Moroccan Pink (wheel slot 2) 15–19 Pink (wheel slot 3) 20–24 Special Rose Pink (wheel slot 4) 25–29 Follies Pink (wheel slot 5) 30–34 Fuchsia Pink (wheel slot 6) 35–39 Surprise Pink (wheel slot 7) 40–44 Congo Blue (wheel slot 8) 45–49 Tokyo Blue (wheel slot 9) 50–54 Deep Blue (wheel slot 10) 55–59 Just Blue (wheel slot 11) 60–64 Medium Blue (wheel slot 12) 65–69 Double CT Blue (wheel slot 13) 70–74 Slate Blue (wheel slot 14) 75–79 Full CT Blue (wheel slot 15) 80–84 Half CT Blue (wheel slot 16) 85–89 Steel Blue (wheel slot 17) 90–94 Lighter Blue (wheel slot 18) 95–99 Light Blue (wheel slot 19) 100–104 Medium Blue Green (wheel slot 20) 105–109 Dark Green (wheel slot 21) 110–114 Primary Green (wheel slot 22) 115–119 Moss Green (wheel slot 23) 120–124 Fern Green (wheel slot 24) 125–129 Jas Green (wheel slot 25) 130–134 Lime Green (wheel slot 26) 135–139 Spring Yellow (wheel slot 27) 140–144 Deep Amber (wheel slot 28) 145–149 Chrome Orange (wheel slot 29) 150–154 Orange (wheel slot 30) 155–159 Gold Amber (wheel slot 31) 160–164 Millennium Gold (wheel slot 32) 165–169 Deep Golden Amber (wheel slot 33) 170–174 Flame Red (wheel slot 34) 175–179 No Function 1 180–190 CW Max 191–200 CW Med 201–201 CW Min 202–207 Stop 208–217 CCW Min 218–228 CCW Med 229–229 CCW Max 230–234 No Function 2 235–241 Fast 242–248 Medium 249–249 Slow 250–255 No Function 3
10	Red	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
11	Green	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
12	Blue	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max

Standard (continued)

Ch	Function	Default	DMX values
13	White	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
14	C TC	0	

Extended

21 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	22	0–19 Closed 20–24 Open 25–44 Strobe · Fast 20–10.7 Hz 45–63 Strobe · Medium 10.3–1.49 Hz 64–64 Strobe · Slow 1 Hz 65–69 Open 70–76 Opening Pulse · Fast 3–1.77 Hz 77–83 Opening Pulse · Medium 1.56–0.33 Hz 84–84 Opening Pulse · Slow 0.125 Hz 85–89 Open 90–96 Closing Pulse · Fast 3–1.77 Hz 97–103 Closing Pulse · Medium 1.56–0.33 Hz 104–104 Closing Pulse · Slow 0.125 Hz 105–109 Open 110–116 Strobe Random · Fast 20–11.9 Hz 117–123 Strobe Random · Medium 10.5–2.36 Hz 124–124 Strobe Random · Slow 1 Hz 125–129 Open 130–136 Opening Pulse Random · Fast 3–1.77 Hz 137–143 Opening Pulse Random · Medium 1.56–0.33 Hz 144–144 Opening Pulse Random · Slow 0.125 Hz 145–149 Open 150–156 Closing Pulse Random · Fast 3–1.77 Hz 157–163 Closing Pulse Random · Medium 1.56–0.33 Hz 164–164 Closing Pulse Random · Slow 0.125 Hz 165–169 Open 170–176 Burst Pulse · Fast 20–11.9 Hz 177–183 Burst Pulse · Medium 10.5–2.36 Hz 184–184 Burst Pulse · Slow 1 Hz 185–189 Open 190–196 Random Burst Pulse · Fast 20–11.9 Hz 197–203 Random Burst Pulse · Medium 10.5–2.36 Hz 204–204 Random Burst Pulse · Slow 1 Hz 205–209 Open 210–216 Sine Wave strobe · Fast 3–2.14 Hz 217–223 Sine Wave strobe · Medium 2–1.14 Hz 224–224 Sine Wave strobe · Slow 1 Hz 225–229 Open 230–236 Burst strobe · Fast 20–11.9 Hz 237–243 Burst strobe · Medium 10.5–2.36 Hz 244–244 Burst strobe · Slow 1 Hz 245–255 Open
2	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
3	Dimmer Fine	0	Fine byte of Dimmer

Extended (continued)

Ch	Function	Default	DMX values
4	Red	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
5	Green	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
6	Blue	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max
7	White	255	0–63 Min 64–127 25% 128–191 50% 192–254 75% 255–255 Max

Extended (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Moroccan Pink (wheel slot 2) 15–19 Pink (wheel slot 3) 20–24 Special Rose Pink (wheel slot 4) 25–29 Follies Pink (wheel slot 5) 30–34 Fuchsia Pink (wheel slot 6) 35–39 Surprise Pink (wheel slot 7) 40–44 Congo Blue (wheel slot 8) 45–49 Tokyo Blue (wheel slot 9) 50–54 Deep Blue (wheel slot 10) 55–59 Just Blue (wheel slot 11) 60–64 Medium Blue (wheel slot 12) 65–69 Double CT Blue (wheel slot 13) 70–74 Slate Blue (wheel slot 14) 75–79 Full CT Blue (wheel slot 15) 80–84 Half CT Blue (wheel slot 16) 85–89 Steel Blue (wheel slot 17) 90–94 Lighter Blue (wheel slot 18) 95–99 Light Blue (wheel slot 19) 100–104 Medium Blue Green (wheel slot 20) 105–109 Dark Green (wheel slot 21) 110–114 Primary Green (wheel slot 22) 115–119 Moss Green (wheel slot 23) 120–124 Fern Green (wheel slot 24) 125–129 Jas Green (wheel slot 25) 130–134 Lime Green (wheel slot 26) 135–139 Spring Yellow (wheel slot 27) 140–144 Deep Amber (wheel slot 28) 145–149 Chrome Orange (wheel slot 29) 150–154 Orange (wheel slot 30) 155–159 Gold Amber (wheel slot 31) 160–164 Millennium Gold (wheel slot 32) 165–169 Deep Golden Amber (wheel slot 33) 170–174 Flame Red (wheel slot 34) 175–179 No Function 1 180–190 CW Max 191–200 CW Med 201–201 CW Min 202–207 Stop 208–217 CCW Min 218–228 CCW Med 229–229 CCW Max 230–234 No Function 2 235–241 Fast 242–248 Medium 249–249 Slow 250–255 No Function 3
9	Pan	128	
10	Pan Fine	0	Fine byte of Pan
11	Tilt	128	
12	Tilt Fine	0	Fine byte of Tilt
13	Pan Rotate	0	0–2 Positioning Mode 3–126 CW Fast/Slow 127–129 Stop 130–253 CCW Slow/Fast 254–255 Stop
14	Tilt Rotate	0	0–2 Positioning Mode 3–126 CW Fast/Slow 127–129 Stop 130–253 CCW Slow/Fast 254–255 Stop

Extended (continued)

Ch	Function	Default	DMX values
15	Control1	0	0–9 Idle 10–14 Reset Entire Fixture (5s) 15–39 No Function 1 40–44 Standard (1s) 45–49 Fast (1s) 50–54 Smooth (1s) 55–59 No Function 2 60–69 Full Fan Speed (1s) 70–74 Regulated Fan Speed (1s) 75–89 No Function 3 90–99 Calibrated Color Mode (3s) 100–104 Raw Color Mode (3s) 105–109 No Function 4 110–119 Fast Dimming Speed (3s) 120–124 Smooth Dimming Speed (3s) 125–249 No Function 5 250–255 Control Panel Display ON (15s)
16	Shutter / Strobe	22	0–19 Closed 20–24 Open 25–44 Strobe · Fast 20–10.7 Hz 45–63 Strobe · Medium 10.3–1.49 Hz 64–64 Strobe · Slow 1 Hz 65–69 Open 70–76 Opening Pulse · Fast 3–1.77 Hz 77–83 Opening Pulse · Medium 1.56–0.33 Hz 84–84 Opening Pulse · Slow 0.125 Hz 85–89 Open 90–96 Closing Pulse · Fast 3–1.77 Hz 97–103 Closing Pulse · Medium 1.56–0.33 Hz 104–104 Closing Pulse · Slow 0.125 Hz 105–109 Open 110–116 Strobe Random · Fast 20–11.9 Hz 117–123 Strobe Random · Medium 10.5–2.36 Hz 124–124 Strobe Random · Slow 1 Hz 125–129 Open 130–136 Opening Pulse Random · Fast 3–1.77 Hz 137–143 Opening Pulse Random · Medium 1.56–0.33 Hz 144–144 Opening Pulse Random · Slow 0.125 Hz 145–149 Open 150–156 Closing Pulse Random · Fast 3–1.77 Hz 157–163 Closing Pulse Random · Medium 1.56–0.33 Hz 164–164 Closing Pulse Random · Slow 0.125 Hz 165–169 Open 170–176 Burst Pulse · Fast 20–11.9 Hz 177–183 Burst Pulse · Medium 10.5–2.36 Hz 184–184 Burst Pulse · Slow 1 Hz 185–189 Open 190–196 Random Burst Pulse · Fast 20–11.9 Hz 197–203 Random Burst Pulse · Medium 10.5–2.36 Hz 204–204 Random Burst Pulse · Slow 1 Hz 205–209 Open 210–216 Sine Wave strobe · Fast 3–2.14 Hz 217–223 Sine Wave strobe · Medium 2–1.14 Hz 224–224 Sine Wave strobe · Slow 1 Hz 225–229 Open 230–236 Burst strobe · Fast 20–11.9 Hz 237–243 Burst strobe · Medium 10.5–2.36 Hz 244–244 Burst strobe · Slow 1 Hz 245–255 Open

Extended (continued)

Ch	Function	Default	DMX values
17	Dimmer	0	0–63 Closed 64–127 25% 128–191 50% 192–254 75% 255–255 Open
18	Dimmer Fine	0	Fine byte of Dimmer
19	Color Wheel 2	0	0–9 Open (wheel slot 1) 10–14 Moroccan Pink (wheel slot 2) 15–19 Pink (wheel slot 3) 20–24 Special Rose Pink (wheel slot 4) 25–29 Follies Pink (wheel slot 5) 30–34 Fuchsia Pink (wheel slot 6) 35–39 Surprise Pink (wheel slot 7) 40–44 Congo Blue (wheel slot 8) 45–49 Tokyo Blue (wheel slot 9) 50–54 Deep Blue (wheel slot 10) 55–59 Just Blue (wheel slot 11) 60–64 Medium Blue (wheel slot 12) 65–69 Double CT Blue (wheel slot 13) 70–74 Slate Blue (wheel slot 14) 75–79 Full CT Blue (wheel slot 15) 80–84 Half CT Blue (wheel slot 16) 85–89 Steel Blue (wheel slot 17) 90–94 Lighter Blue (wheel slot 18) 95–99 Light Blue (wheel slot 19) 100–104 Medium Blue Green (wheel slot 20) 105–109 Dark Green (wheel slot 21) 110–114 Primary Green (wheel slot 22) 115–119 Moss Green (wheel slot 23) 120–124 Fern Green (wheel slot 24) 125–129 Jas Green (wheel slot 25) 130–134 Lime Green (wheel slot 26) 135–139 Spring Yellow (wheel slot 27) 140–144 Deep Amber (wheel slot 28) 145–149 Chrome Orange (wheel slot 29) 150–154 Orange (wheel slot 30) 155–159 Gold Amber (wheel slot 31) 160–164 Millennium Gold (wheel slot 32) 165–169 Deep Golden Amber (wheel slot 33) 170–174 Flame Red (wheel slot 34) 175–179 No Function 1 180–190 CW Max 191–200 CW Med 201–201 CW Min 202–207 Stop 208–217 CCW Min 218–228 CCW Med 229–229 CCW Max 230–234 No Function 2 235–241 Fast 242–248 Medium 249–249 Slow 250–255 No Function 3

Extended (continued)

Ch	Function	Default	DMX values
20	Color Effects1	0	0–9 Open 10–20 Pixel chase CW 21–31 Pixel chase CCW 32–42 Pixel Bounce 43–53 Pixel Fill Horiz 54–64 Pixel Fill Vert 65–75 Dual Bounce 76–86 Pixel Wave Horiz 87–97 Pixel Wave Vert 98–108 Sparkle 109–119 Quarter Rotation CW 120–130 Quarter Rotation CCW 131–141 Eighths Rotation CW 142–152 Eighths Rotation CCW 153–163 White/Blue Flash 164–174 Split Rotation CW 175–185 Split Rotation CCW 186–196 Quarter Flip 197–207 Half Flip Vert 208–218 Half Flip Horiz 219–229 RGB color flash 230–240 Rainbow flash 241–251 Hot/Cold Flash 252–255 Open
21	Effect Speed	0	0–9 Open 10–255 Slow/Fast